

AMENDMENTS TO THE CLAIMS:

Please amend claims 7-12, and add new claims 13-23, as shown below.

This listing of claims will replace all prior versions and listings of claims in the
Application:

Claim 1-6 (canceled)

Claim 7 (currently amended): A variable drive current driver circuit, comprising:

a pair of push-pull circuits for driving a load circuit complementarily;

a first current source circuit for having a first bias current ~~flowed~~ flow to said pair of
push-pull circuits;

a second current source circuit for having said first bias current ~~flowed~~ flow from said
pair of push-pull circuits;

a third current source circuit capable of having a second bias current ~~flowed~~ flow to said
pair of push-pull circuits;

a fourth current source circuit capable of having said second bias current ~~flowed~~ flow
from said pair of push-pull circuits; and

a control circuit for varying both said second bias current ~~flowed~~ driven by said third
current source circuit and said second bias current ~~flowed~~ driven by said fourth current source
circuit according to a control signal.

Claim 8 (currently amended): The variable drive current driver circuit according to claim 7,
wherein

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said control circuit ~~has said third current source circuit have~~ controls whether said second bias current driven by said third current source flows ~~flowed or not flowed~~ to said pair of push-pull circuits, and

said control circuit ~~has said fourth current source circuit have~~ controls whether said second bias current driven by said fourth current source flows ~~flowed or not flowed~~ from said push-pull circuits.

Claim 9 (currently amended): A variable drive current driver circuit, comprising:

a pair of push-pull circuits for driving a load circuit complementarily;

a first current source circuit for having a first bias current ~~flowed~~ flow to said pair of push-pull circuits;

a second current source circuit for having said first bias current ~~flowed~~ flow from said pair of push-pull circuits;

a third current source circuit capable of having a second ~~bais~~ bias current ~~flowed~~ flow to said pair of push-pull circuits;

a fourth current source circuit capable of having said second bias current ~~flowed~~ flow from said pair of push-pull circuits; and

a control circuit for varying both said second bias current ~~flowed~~ driven by said third current source circuit and said second bias ~~currently flowed~~ current driven by said fourth current source circuit according to a control signal,

wherein each push-pull circuit comprises at least two ~~gate types~~ conductivity types of transistors.

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Claim 10 (currently amended): The variable drive current driver circuit according to claim 9, wherein

said control circuit ~~has said third current source circuit have~~ controls whether said second bias current ~~flowed or not flowed~~ driven by said third current source flows to said pair of push-pull circuits, and

said control circuit ~~has said fourth current source circuit have~~ controls whether said second bias current ~~flowed or not flowed~~ driven by said fourth current source flows from said push-pull circuits.

Claim 11 (currently amended): A variable drive current driver circuit, comprising:

a pair of push-pull circuits for driving a load circuit complementarily;

a first current source circuit for having a first bias current ~~flowed~~ flow to said pair of push-pull circuits;

a second current source circuit for having a second bias current ~~flowed~~ flow from said pair of push-pull circuits;

a third current source circuit capable of having a third bias current ~~flowed~~ flow to said pair of push-pull circuits;

a fourth current source circuit capable of having a fourth bias current ~~flowed~~ flow from said pair of push-pull circuits; and

a control circuit for varying both said third bias current ~~flowed~~ driven by said third current source circuit and said fourth bias current ~~flowed~~ driven by said fourth current source circuit according to a control signal.

Claim 12 (currently amended): The variable drive current driver circuit according to claim [[5]] 11, wherein

said control circuit ~~has said third current source circuit have~~ controls whether said third bias current ~~flowed or not flowed~~ driven by said third current source flows to said pair of push-pull circuits, and

said control circuit ~~has said fourth current source circuit have~~ controls whether said fourth bias current ~~flowed or not flowed~~ driven by said third current source flows from said push-pull circuits.

Claim 13 (new): The variable drive current driver circuit according to claim 7,

wherein said control signal is independent of drain voltages of the first to fourth current source circuit.

Claim 14 (new): The variable drive current driver circuit according to claim 7,

wherein said first bias current is a constant current.

Claim 15 (new): The variable drive current driver circuit according to claim 7,

wherein said second bias current is a constant current.

Claim 16 (new): The variable drive current driver circuit according to claim 9,

wherein said control signal is independent of drain voltages of the first to fourth current source circuit.

Claim 17 (new): The variable drive current driver circuit according to claim 9,

wherein said first bias current is a constant current.

Claim 18 (new): The variable drive current driver circuit according to claim 9,

wherein said second bias current is a constant current.

Claim 19 (new): The variable drive current driver circuit according to claim 11,
wherein said control signal is independent of drain voltages of the first to fourth current
source circuit.

Claim 20 (new): The variable drive current driver circuit according to claim 11,
wherein said first bias current is a constant current.

Claim 21 (new): The variable drive current driver circuit according to claim 11,
wherein said second bias current is a constant current.

Claim 22 (new): The variable drive current driver circuit according to claim 11,
wherein said third bias current is a constant current.

Claim 23 (new): The variable drive current driver circuit according to claim 11,
wherein said fourth bias current is a constant current.